

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-40 (canceled)

Claim 41 (Previously presented) A polymeric foam powder prepared by a method of preparing foam powder from polymeric foam, the method comprising:

- a) comminuting the foam in a crusher comprising at least two surfaces moving at different speeds, said comminuting comprising contacting at least a portion of the foam to said at least two surfaces, thereby preparing a crushed product comprising particles;
- b) quenching the crushed product exiting the crusher with a cooling medium, wherein a mass flow rate of the cooling medium has a value that is at least a certain percentage of a mass flow rate of the crushed product, wherein said value is at least a minimum value suitable for dilute phase pneumatic conveying of the crushed product and
- c) separating said particles from the crushed product, wherein substantially all of the crushed product exiting the crusher is scraped off said at least two surfaces of said crusher prior to separating said particles from the crushed product.

Claim 42 (previously presented) A polymeric foam powder of claim 41, comprising polyurethane foam powder having a first particle size of about 0.005 mm to about 2 mm.

Claim 43 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size range between 0.001 mm and about 2 mm.

Claim 44 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size range between 0.001 mm and about 2 mm.

Claim 45 (original) A polymeric foam powder of claim 44 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

Claim 46 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size range between 0.001 mm and about 2 mm.

Claim 47 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.250 mm.

Claim 48 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.045 mm.

Claim 49 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polyurethane foam skins and having a particle size of about 0.001 to 0.020 mm.

Claim 50 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.250 mm.

Claim 51 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.045 mm.

Claim 52 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size of about 0.001 to 0.020 mm.

Claim 53 (original) A polymeric foam powder of claim 50 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

Claim 54 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.250 mm.

Claim 55 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.045 mm.

Claim 56 (previously presented) A polymeric foam powder of claim 41, consisting essentially of comminuted polyurethane and paper and having a particle size of about 0.001 to 0.020 mm.

Claims 57-91 (canceled)

Claim 92 (previously presented) Foam powder comprising polyurethane foam and methylene chloride, the foam powder made by a method of substantially removing contaminant materials selected from the group consisting of oil and grease from a polymeric foam, the method comprising:

- a) comminuting the polymeric foam to prepare polymeric foam powder; and
- b) treating the polymeric foam powder with a solvent capable of dissolving the contaminant material,

wherein the solvent comprises one or more solvents selected from the group consisting of liquid carbon dioxide, alcohols, ketones, acetone, alkanes, halogenated hydrocarbons, methylene chloride, and perchloroethylene.

Claims 93-95 (canceled)

Claim 96 (previously presented) A powder having a maximum particle size of 2 mm, comprising a contaminant powder of a contaminant and at least 5% by weight of a comminuted polyurethane foam powder, wherein the contaminant is selected from the group consisting of polymer sheeting, and paper, further wherein the comminuted polyurethane foam powder is a powder of flexible reversibly deformable foam having a majority of open cells.

Claim 97 (previously presented) The powder of claim 96 containing substantially no rigid polyurethane foam.

Claim 98 (previously presented) The powder of claim 96 containing said contaminants in the range from about 0.1% to about 75% by weight.

Claim 99 (previously presented) The powder of claim 96 containing said contaminants in the range from about 0.5% to about 75% by weight.

Claim 100 (previously presented) The powder of claim 96 wherein said comminuted polyurethane foam powder has been comminuted from polyurethane foam having cells with cell walls.

Claim 101 (previously presented) The powder of claim 100 wherein said comminuted polyurethane foam powder has substantially no remaining cells.

Claim 102 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 2 mm.

Claim 103 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.25 mm.

Claim 104 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.150 mm.

Claim 105 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.045 mm.

Claim 106 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.020 mm.

Claim 107 (previously presented) The powder of claim 96 having a particle size ranging from about 0.001 mm to about 0.010 mm.

Claim 108 (canceled)

Claim 109 (previously presented) The powder of claim 96 wherein the contaminated polymeric foam comprises polyurethane foam that is contaminated with polymeric sheet.

Claim 110 (previously presented) The powder of claim 109 wherein the polymeric sheet comprises a polymer selected from polyethylene, polypropylene, and polystyrene.

Claim 111 (previously presented) The powder of claim 110 wherein the polymeric sheet comprises polyethylene.

Claim 112 (previously presented) The powder of claim 111 wherein the polymeric sheet comprises polyethylene with a softening point less than about 135°C.

Claim 113 (previously presented) The powder of claim 96 wherein the contaminated polymeric foam comprises polyurethane foam that is contaminated with paper.

Claim 114 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and polyurethane foam skins having a size between 0.001 mm and about 2 mm.

Claim 115 (previously presented) The powder of claim 114 consisting essentially of

particles having a size between 0.001 mm and about 0.25 mm.

Claim 116 (previously presented) The powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.150 mm.

Claim 117 (previously presented) The powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.045 mm.

Claim 118 (previously presented) The powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.020 mm.

Claim 119 (previously presented) The powder of claim 114 consisting essentially of particles having a size between 0.001 mm and about 0.010 mm.

Claim 120 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 2 mm.

Claim 121 (previously presented) The powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.25 mm.

Claim 122 (previously presented) The powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.150 mm.

Claim 123 (previously presented) The powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.045 mm.

Claim 124 (previously presented) The powder of claim 120 consisting essentially of

comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.020 mm.

Claim 125 (previously presented) The powder of claim 120 consisting essentially of comminuted polyurethane and polymeric sheeting and having a particle size between 0.001 mm and about 0.010 mm.

Claim 126 (previously presented) The powder of claim 120 wherein the polymeric sheeting comprises a polymer selected from polyethylene and polypropylene and polystyrene.

Claim 127 (previously presented) The powder of claim 126 wherein the polymeric sheet comprises polyethylene.

Claim 128 (previously presented) The powder of claim 127 wherein the polymeric sheet comprises polyethylene with a softening point less than about 135°C.

Claim 129 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 2 mm.

Claim 130 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.25 mm.

Claim 131 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.150 mm.

Claim 132 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.045 mm.

Claim 133 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.020 mm.

Claim 134 (previously presented) The powder of claim 96 consisting essentially of comminuted polyurethane and paper and having a particle size between 0.001 mm and about 0.010 mm.

Claims 135-159 (canceled)

Claim 160 (original) The powder of claim 96 further comprising a powder of a polyurethane foam skin of said flexible reversibly deformable foam.